ACCESSION NR: APLO23374

property on which a new method of industrial geophysics may be developed. Orig. art. has: 4 figures and 1 table.

ASSOCIATION: Akademiya nauk SSSR Institut fiziki Zemli (Academy of Sciences SSSR Institute of Physics of the Earth)

SUBMITTED: 29Apr63

DATE ACC: 27Mar64

ENCL: 00

SUE CODE: AS

NO REF SOV: 010

OTHER: 000

Cord 2/2

PARKHOMENKO, E.I.; BONDARENKO, A.T.

Electric resistance of rocks at pressures up to 40,000 kg./cm.² and temperatures up to 400°. Izv. AN SSSR. Ser. geofiz. no.12: 1823-1832 D '63. (MIRA 17:1)

1. Institut fiziki Zemli AN SSSR.

PARKHOMENKO, E.I.

Use of ultrasonics in studying the electric properties of rocks. Trudy Inst. fiz. Zem. no.23:91-96 62.

Types of symmetry of piezoelectric structures of rocks formed by piezoelectric minerals. 97-100 (MTRA 16:11)

VOLAROVICH, M.P.; BONDARENKO, A.T.; PARKHOMENKO, E.I.

Effect of pressure on the electric properties of rocks. Trudy
Inst. fiz. Zem. no.23:80-90 "62. (MIRA 16:11)

PARKHOMENKO, E.I.; BONDARENKO, A.T.

Electric conductivity of rocks at high temperatures and onesided pressure. Trudy Inst. fiz. Zem. no.23:101-106 '62.

(MIRA 16:11)

PARKIICHTIKO, F.

Senior Scientific Werker

On: Alfalfa Joed Malsia

Soviet Source: II: Pravla voltoka, 2/ J.n. 194",

Abstracted in USAP "Treasure Islam", en file in Library of Son ress, Alr Information Livision, Report 16. 37467

PARKHOMENKO, F. S.

27820. Parkhomenko, F. S. K voprosv o semenovodstve menogoletnikh rykhlokvstovykh zlakovykh trav. Sots. sel. khoz-vo Uzbekistana, 1949, No. 2, s. 50-55

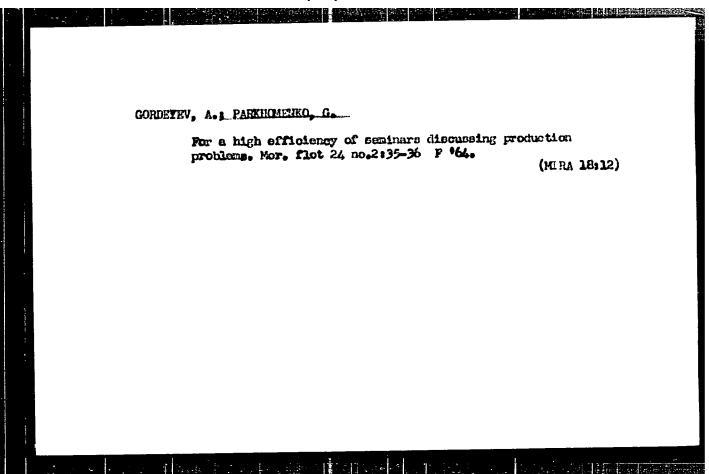
SO: Letopis' Zhurnal'nykh Statey, Vol. 37, 1949

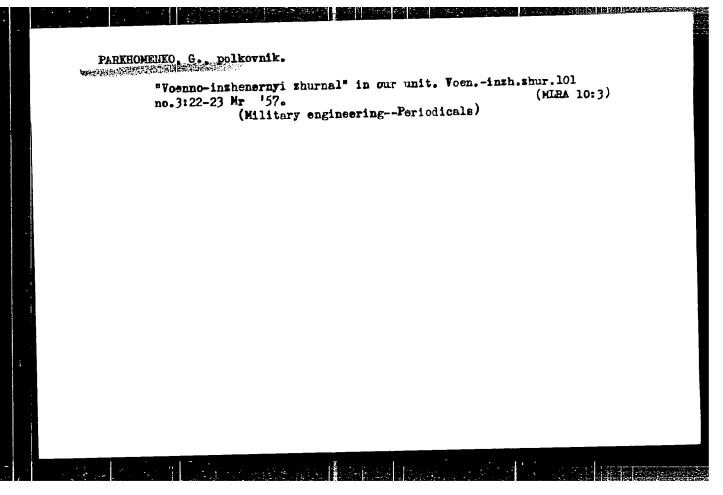
PARKHOMENKO, G., inch.

(Green light for new materials. NTO 2 no.5:33-34 My 160.

(MIRA 14:5)

1. Chlen nauchno-tekhnicheskogo obshchestva vodnogo transporta.
(Shipbuilding) (Plastics)





PARKHOMENKO, G.; GORDINSKII, S.

Prophylaxy in handling radio-active isotopes. Tr. from the Russian. p. 310. Vol. 9, no. 10, Oct. 1955. Orhrona Pracy. Warszawa.

Source: Monthly list of East European Accessions (EEAL), Lc, Vol. 5, no. 2, Feb. 1956

PARKHOMENKO, G.A., inzh.; SPANNUT, V.S., inzh.

Experimental determination of synchronous reactances. Elektrotekhnika 36 no.5:51-52 My '65.

(MIRA 18:5)

L 39730-66 EWT(1) GD-2

ACC NR: AP6007337

SOURCE CODE: UR/0292/66/000/002/0066/0008

AUTHOR: Lodochnikov, E. A. (Engineer); Sheminov, V. G. (Engineer);

Parkhomenko, G. A. (Engineer); Shalagin, V. M. (Engineer); Ageyev, V. Ye. (Engineer); Vlasova, V. P. (Engineer); Spannut, V. S. (Engineer)

ORG: none

TITLE: Electric microdrives of the MB series

SOURCE: Elektrotekhnika, no. 2, 1966, 6-8

TOPIC TAGS: miniature motor, electric motor, servomotor / MB miniature

motor

ABSTRACT: A miniature contactless MB-series d-c motof is briefly described. It comprises the motor proper, a transformer-type transistorized rotor-position sensor, and a transistorized commutator; its principal circuit diagram is shown.

Card 1/2

UDC: 621.313.13 - 181.4

L 39730-66

ACC NR: AP6007337

The motor is actually a synchronous machine with a magnetically hard rotor. The rotor-position sensor inverts do into 10-30-kc power which is amplitude-modulated with a frequency determined by motor rpm. Three-phase signal envelopes are isolated and used for controlling the commutator. The latter has a 3-phase power-amplifier bridge circuit and is designed for operation within \$500. The motor windings receive a 3-phase square-shaped voltage which does not contain even or 3rd order harmonics. Data on five types of the MB series whose torques vary between 25 and 400 g.cm is tabulated. The motor is in the developmental stage. Its life is claimed to be between 3000 and 10000 hrs, depending on the type. Plots of rpm and efficiency vs. torque are presented. Orig. art. has: 4 figures, 5 formulas, and 1 table.

SUB CODE: 09 / SUBM DATE: none / ORIG REF: 004

Card 2/2/1 5

PARKHOMENKO, G.I.; YARANTGEVA, Ye.P.; KATS, A.M.; Prinimala uchastiye CHERTKOVA, A.N.

á

Prescriptions at the drugstores of Moscow. Apt. delo 14 no. 4: 58-61 Jl-Ag *65 (MIRA 19:1)

1. Moskovskoye go:rodskoye aptechnoye upravleniye. 2. Nauchnoissledovatel skayn aptechnaya stantsiya Moskovskogo gorodskogo aptechnogo upravleniya (for Chertkova).

PARKHOMENKO, G.I.

Providing Moscow residents with medicines. Gor.khos.Mosk. 36 no.2:25-28 F 162. (NIRA 16:2)

1. Nachal'nik Moskovskogo gorodskogo aptechnogo upravleniya. (MOSCOW-DRUGSTORES)

SIDORKOV, A.M.; PARKHOMENKO, G.I.; KOROLEVA, M.G.; YARANTSEVA, Ye.P.

Review of T.I.Tol'tsman's book "Textbook on the organization of pharmaceutical service." Apt. delo 12 no.5:86-67 S-0'63 (MIRA 16:11)

PARKHOMENKO, G.I., YARANTSEVA, Ye., MIRLIN, N.D., kand.famatsevticheskikh nauk

"Organization of the pharmacy system" by A.I. Shimanko, A.K. Mel'nichenko. Reviewed by G.I. Parkhomenko, E. IArantseva, B.D. Mirlin. Apt. delo 7 no.4:92-95 Jl-Ag 158 (MIRA 11:8)

1. Zamestitel' predsedatelya Noskovskogo nauchno-farmatsevticheskogo obshchestva (for Parkhomenko). 2 Zamestitel' predsedatelya sektsii planirovaniya i nehestva Noskovskogo nauchno-farmatsevticheskogo obshchestva (for Yarantseva).

(PHARMACY)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239230008-3"

THE REPORT OF THE PERSON NAMED IN

GORODIESKIY, S.M.; PARKHOMENKO, G.M.

Preventive problems of radioisotopes in industry. Gig. sanit., Moskva no.4:22-28 Apr 1953. (CIML 24:4)

1. Of the Institute of Labor Hygiene and Occupational Diseases of the Academy of Medical Sciences USSR.

TRANS Mi-756, Be Fay 50

FARKHOMERKO, G. M. and CORODINCKIY, S. M.

"Safety Measures in Kandling Radioactive Isotopes," 1955

"Sanitary Regulations and Instructions for Handling RadioactiveIsotopes," 1955

GRANIL'SHCHIKOV, V.P.; PARKHOMENKO, G.M.

Sanitary, hygienic and technical requirements in planning and equipping laboratories for radioactive substances. Med. rad. 1 no.3:k2-52 Ny-Je '56. (MIRA 9:10)

(IABORATORIES sanitary, hygienic & technical requirements in laboratories for radicactive substances)

(RADIATION PROTECTION same)

PARKHOMENKO, G.M.

"Medical Hygiene and Problems of Hygiene," by Prof. A. A.
Letavet, Active Member, Academy of Medical Sciences USSR, and
G. M. Parkhomenko, Candidate of Medical Sciences, Vestnik Akademii Meditsinskikh Nauk SSSR, No 3, 1956, pp 77-80

The article reviews the scientific reports presented at the Hygiene Section of the All-Union Conference on Medical Radiology (30 January to 4 February 1956, Moscow).

Among the topics embraced are the following: radiation hygiene and dosimetry; hygienic standardization and the establishment of maximum permissible levels of external irradiation and maximum permissible concentration of radioactive substances in the atmosphere and water; hygienic characteristics of industries and laboratories using radioactive substances; basic factors in the injurious action of radioactive substances and methods for improving working conditions where they are used; sanitary-hygienic and technical requirements in the planning and equipment of laboratories using large amounts of radioactive substances; the cleansing of hands contaminated with radioactive substances; determination of alpha-active aerosols in the air; individual protection of workers; selection of polymer materials and resin for use in individual protection; resins for individual protective clothing which can be washed free of radioactive substances; description of a new type of valveless respirator, the "Lepestok," for once-only use; cleansing of individual protective clothing items of cotton and plastic; disposal of radioactive wastes; and the behavior of radipelements in water under experimental conditions. (U)

54M. 1345

SOV/137-58-8-18205

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 286 (USSR)

Parkhomenko G.M.

Some Problems of Labor Hygiene in the Work With Radioactive AUTHOR: TITLE.

Isotopes in Metallurgy and Machine Building (Nekotoryye voprosy gigiyeny truda pri rabote s radioaktivnymi izotopami v metal.

lurgii i mashinostroyenii)

PERIODICAL: Tr Vses. konterentsii po med. radiol. Vopr. gigiyeny i

dozimetrii Moscow, Medgiz, 1957, pp 22-26

The regions of application of radioactive isotopes in machine building and prophylactic measures are examined. ABSTRACT:

Ye. L

1. Radioisotopes—Applications

2. Radioisotopes .- Physiological factors

Card 1/1

CIA-RDP86-00513R001239230008-3" APPROVED FOR RELEASE: 06/15/2000

PAKKHOMANNE, CAZO

137-58-1-2185

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 296 (USSR)

AUTHORS: Gorodinskiy, S. M., Parkhomenko, G. M.

TITLE: Problems of Labor Hygiene in Work with Radioactive Isotopes

(Voprosy gigiyeny truda pri rabote s radioaktivnymi izotopami)

PERIODICAL: V sb.: Izuch. iznosa detaley mashin pri pomoshchi radioaktivn

izotopov. Moscow, AN SSSR, 1957, pp 135-143

ABSTRACT: The harmful effect of radioactive isotopes upon the human

body is examined, and a complex of hygiene and technical health measures is set forth for the purpose of making work

with radioactive isotopes safe.

Ye. L

1. Isotopes (Radioactive) -- Physiological effects 2. Isotopes

(Radioactive) - Safety measures

Card 1/1

GORODINSKIY, Semen Mikhaylovich: PARKHOMENKO, Galina Maksimovna; LBTAVET, A.A., prof., red.; MARGULIS, U.Ya., red.; KNAKNIN, M.T., tekhn.red.

[Hygienic aspects of work with radioactive isotopes] Gigiena truda pri rabote s radioaktivnymi izotopami. Pod red. A.A. Letaveta. Izd.3, dop. i ispr. Moskva, Gos. izd-vo med. lit-ry, 1958. 66 p. (MIRA 11:12)

1. Deystvitel'my chlen AMN SSSR.

(RADIOISOTOPES--SAFETY MEASURES)

PARKHOMSHKO, G.M., kand.meuk

Sefety rules for the trensportation, storage, registration and handling of radioactive substances. Gig. 1 sen. 23 no.1:43-45
Jn '58. (MIRA 11:2)

(RADIATION PROTECTION

regulations for transportation, storage, registration & handling of radioactive substances)

GRABIL'SHCHIKOV, V.P., PARKHOMENKO, G.M.

Result of using a three-zone plan in work with radium. Gig. i san.
23 no.10:76-78 0 '58 (MIRA 11:11)

(RADIATION PROTECTION,
hosp, zones in protection against radium (Rus))

(HOSPITAIS,
zonal system in protection against radium (Rus))

PARKHOMENKO, Galina Maksimovna; ZOLOTUKHINA, Rita Yakovlevna; NOVIKOV, Yu.V., red.; ZIYEVA, N.K., tekhn.red.

[Industrial hygiene in work with radium] Gigiena truda pri rabote s radiem. Moskva, Gos.izd-vo med.lit-ry Medgiz, 1960. 64 p.

(MIRA 14:3)

(RADIUM--PHYSIOLOGICAL EFFECT) (RADIOACTIVITY--SAFETY MRASURES)

ACCESSION NR: AT4016989

s/3057/63/000/000/0011/0015

AUTHOR: Parkhomenko, G.M.

TITLE: The problem of deriving maximum permissible contamination levels for working surfaces in operations involving alpha-radiation

SOURCE: Zashchitny*ye pokry*tiya v atomnoy tekhnike (Shielding in nuclear engineering); sbornik statey. Moscow, Gosatomizdat, 1963, 11-15

TOPIC TAGS: contamination level, radioactive contamination, radioactivity, alpha radiation, nuclear shielding

ABSTRACT: The author discusses the problems connected with safety and precautionary measures to be taken in establishments dealing with radioactive materials. Special attention is given to the different contamination aspects of beta and gamma radiation on the one hand and alpha radiation on the other in terms of the danger posed to operating personnel. An attempt is made at an analysis of the radiation hazard from the point of view of location within an establishment and it is pointed out that the distinction between "fixed" and "unfixed" radiation is not justified and that a unified standardization of radiation levels (such as has been adopted in the Soviet Union) is to be Card/3

ACCESSION NR: AT4016989

preferred to this "indefinite concept". A discussion follows of the maximum permissible concentration of aerosols and a table is presented showing the data on the contamination of working surfaces by various alpha-active substances and the resultant maximum permissible content of these substances in the air. It is established that at permissible surface contamination levels (500 alphaparticles/150 cm2 · min.), the aerosol content in the air is below the permissible content. Another chart is given to show the comparison of the maximum permissible levels of contamination in Poland, France, Great Britain and the United States. The author calls attention to the lower levels adopted in the USSR. In conclusion, the author submits certain suggestions in connection with the proposed revision of the "Sanitation Rules for Working with Radioactive Materials and Sources of Ionizing Radiation (No. 33-60)"; they are: 1) that the contamination levels be given not for an area of 150 cm2, but for 1 cm2; 2) that for the surfaces of floors and equipment a single permissible level be adopted, for both before and after cleansing (within 500 -particles/150 cm2.min); 3) that, in zone planning, different contamination levels be adopted for equipment and repair areas on the one hand (where personnel spend only a limited period of time) and for the operators (or "clean") zone, on the other hand. Orig. art. has: 2 tables.

Card 2/3

ACCESSION NR: AT4016989

ASSOCIATION: none

SURMITTED: 00 DATE ACQ: 20Feb64 ENCL: 00

SUB CODE: NP NO REF SOV: 004 OTHER: 002

Card 3/3

A CONTRACTOR OF THE PROPERTY O

GORODINSKIY, S.M., red. toma; PAUKHOMENKO, G.M., red. toma; TAHASENKO, N.Yu., red. toma; MAREY, A.N., red. toma; ROZANOV, M.S., red.; KUZ'MINA, N.S., tekhn. red.

[Radiation hygiene] Radiatsionnaia gigiena. Moskva, Medgiz, Vol.1. [Industrial hygiene] Gigiena truda. 1962. 231 p. Vol.2. [Communal hygiene] Kommunal naia gigiena. 1962. 223 p. (RADIATION PROTECTION) (MIRA 15:7)

GRANIL'SHCHIKOV, V.P.; PARKHOMENKO, G.M.

Planning of laboratories and radiation safety. Med. rad. 5 no.12:
47-56 '60.

(RADIATION PROTECTION)

(RADIATION PROTECTION)

PARKHOMENKO, Gelina Maksimovna; CORTACHEVA, N.A., red.;
DRUZHINIWA, L., tekhn. red.

[Work hygiene in handling polonium] Gigiena truda pri rabote s poloniem. Moskva, Gosatomizdat, 1963. 50 p. (MIRA 16:10)

(Polonium—Safety measures)

The state of the s

CHUYKO, N.M., doktor tekhn.nauk; RUTKOVSKIY, V.B., inzh.; DANICHEK, R.Ye., inzh.; PEREVYAZKO, A.T., inzh.; BORODULIN, G.M., inzh.; THEGUHENKO, A.F., inzh.; SHAMIL', Yu.P., inzh.; FRANTSOV, V.P., inzh.; VOLOVICH, V.G., inzh.; Prinimali uchastiye: IOFFE, I.M., inzh.; LAVRENT'YEV, M.I., inzh.; PARKHOMENKO, G.P., inzh.; DEMIDENKO, V.I., inzh.; RYSIN, Ye.M., inzh.; VOROB'YEVA, T.M., inzh. Inert gas blowing of metal in the ladle in vacuum. Stal' 22 no.9:809-811 S '62. (MIRA 15:11) (Vacuum metallurgy) (Protective atmospheres)

PACK CILIR, 1. .. - " first in the last in the interesting return on the property of the point in the dutte and order the South in the last in the dutte and order to be a last in the las

PARKHOMENEO, I.

USER/Chesistry - Systems, Sinary Chemistry - Inorganic Compounds Sep 48

"Himry Systems Composed of the Halides of Silicon, Titanium, Tin Arvenic, Antimony And Himsuth With Various Organic Compounds," H. A. Pushin, Collaborators:
N. Vasovich, I. Velitekim, T. Voroponovoy, L. Harichem, L. Hikaylovich, L. Hikolich,
T. Parkhomenko, Ye. Ucovich, S po

"Zhur Obshch Khimii" Vol XVIII, No 9

Investigates fusibility diagrams of 16 binary systems. Shows that arrenic frichloride with aniline and 1,3,4-xylidine gives high-selting compounds of composition AsCl3. 3CH3H2 and AsCl3.3CH3HH2. Standic tetrachloride with o-nitranisole forms a compound of equipolecular composition, SnCh4.0.CH4(HD2).0.CH3. Instrument forms systems, except arsenic tribromide-asoleonzene, are sectionical mixtures in the crystalling state. A second, and intention of bisauth tribromide exists with transition temperature of 151. Support ted 13 Jun 47.

PA 30/4915

PARKHOMENKO, I.A.; BUYNYACHENKO, G.P.

Remarks on the article Regular thermal conditions for solids of complex shape by G.N.Tret lachenko and L.V.Kravchuk. Inzh.-fiz. zhur. 5 no.4:127-129 Ap 162. (MIRA 15:4)

1. Tekhnicheskiy institut rybnoy promyshlennosti i khozyaystva, Kaliningrad.

(Thermodynamics) (Tret*iachenko, G.N.) (Kravchuk, L.V.)

PARKHOMENKO, I.A.

The fastening of pole arms should be changed. Avtcm., telem. i svies' 6 no.10:39 0 '62. (MIRA 16:5)

Company of the Compan

1. Starshiy elektromekhanik Bikinskoy distantsii signalizatsii i svyazi Dal'nevostochnoy dorogi.

(Electric lines--Poles and towers)

16 1 1 S

S/170/62/005/004/014/016 B104/B102

34.5100 AUTHORS:

Parkhomenko, I. A., Buynyachenko, G. P.

TITLE:

Remarks on a paper by G. R. Tret'yachenko and L. V. Kravchuk entitled "Normal thermal conditions of bodies of complex shape"

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, v. 5, no. 4, 1962, 127 - 129

TEXT: According to I. Boussinesq (Theorie analitique de la chaleur, $\frac{1}{2}$, Faris, 1901 - 1903), the temperature field of a solid body under constant boundary conditions can be represented by

$$t(\bar{r},\tau) = A_0 U_0(\bar{r}) \exp(-m_0 \tau) + A_1 U_1(\bar{r}) \exp(-m_1 \tau) + A_2 U_2(\bar{r}) \exp(-m_2 \tau) + \dots$$
(1)

From a certain moment, the temperature can be described in good approximation by $t = A_0 U_0(r) \exp(-m_0 T)$. These temperature conditions are called normal by G. M. Kondrat'yew G. N. Tret'yachenko and L. V. Kravchuk (IFZh, Card 1/2

Remarks on a paper by

S/170/82/005/004/014/016 B104/B102

no. 3, 132, 1961) showed that the terms of the series (1) decrease rapidly with m_j > m_o and that the contribution of the eigenfunctions U_j(\overline{r}) to the sum is somewhat larger so that the "determining" term of the series is not the first but an n-th term. The number of this term largely depends on the point observed of the body. Thus the authors prove that "m is not a constant and does not depend on the coordinates". Their statement is restricted to bodies of complex shape. For bodies of simple shape, m is constant. The authors do not agree to these statements. They prove that the functions A_jU_j(\overline{r})exp(-m_j) do not only depend on the reference point, i. e., on U_j(\overline{r}), but also substantially on time. There are 3 tables and 2 Soviet references.

ASSOCIATION: Tekhnicheskiy institut rybnoy promyshlennosti i khozyaystva,

g. Kaliningrad (Technical Institute of Fish Industry and

Fishery, Kaliningrad)

SUBMITTED:

December 30, 1961

Card 2/2

10.6000 1327

S/147/61/000/003/012/017 E031/E335

AUTHORS:

Akhmerov, A.F. and Parkhomenko, I.F.

TITLE:

The problem of determining the parameters for the bending and stretching of the profiles of components

PERTODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Aviatsionnaya tekhnika, no. 3, 1961, pp. 127 - 133

TEXT: The problem is considered of determining the parameters for the process in which the component is subjected to bending in the stretched state, the profiles consisting of rectangular sections asymmetrically disposed with respect to the axis of bending. The problem of a cross-section consisting of a number of rectangular parts and stretched by a force P and then subjected to bending moments M acting in the plane of symmetry or in the plane of the central axis parallel to the edge gives rise to two cases: the first is where the edge is compressed by the bending; the second is where the edge is stretched by the bending. The moment of the internal stresses and the springiness of the component are calculated in each case, starting from the equation for the equilibrium of Card 1/2

S/147/61/000/003/012/017 E031/E335

The problem of determining

additional stresses and using the equation expressing the equilibrium of the moments of the internal and external forces. The results were verified experimentally on a Trp-q (PGR-8) machine in factory conditions, using T-shaped components of a length of 5 100 mm, made from A-16M (D-16M) material. Three marks, 500 mm apart, were made on the specimens. The radius of curvature of the bending was 610 mm. Theory and experiment were found to be in good agreement. M.I. Lysov is mentioned in the article. There are 5 figures, 1 table and 4 Soviet-bloc references.

ASSOCIATION: Kafedra prozvodstva samoletov,

Kazanskiy aviatsionnyy institut (Department of Aircraft Production,

Kazan' Aviation Institute)

SUBMITTED: February 10, 1961

Card 2/2

AKHMEROV, A.F.; PARKHOMENKO, I.F.

· ...

Determining engineering parameters for section parts subjected to bending and stretching. Izv.vys.ucheb.zav.; av.tekh. 4 no.3: 127-133 '61. (MIRA 14:8)

1. Kazanskiy aviatsionnyy institut, kafedra proizvodstva

(Beams and girders)

AKHMEROV, A.F.; PARKHOMENKO, I.F.

Investigating the effect of external friction on technological

parameters of bending with stretching. Trudy KAI no.70:3-21 '62. (MIRA 18:4)

L 45599-66 EWT(1)/EWT(m)/EWP(w)/T/EWP(t)/ETI/EWP(k) IJP(c) FDN/JD/HN

ACC NR: AT6014324 SOURCE CODE: UR/2529/62/000/070/0003/0021

AUTHOR: Akhmerov, A. F.; Parkhomenko, I. F.

56

ORG: None

B+/

TITLE: Investigation of the effect of external friction on the technological parameters of bending processes with elongation

SOURCE: Kazan. Aviatsionnyy institut. Trudy, no. 70, 1962. Aviatsionnaya tekhnologiya i organizatsiya proizvodstva (Aviation engineering and organization of production), 3-21

TOPIC TAGS: metal bending, sheet metal, metal forming, stretch forming, ELONGATION, FRIGTION COFFFICIENT, STRESS DISTRIBUTION

ABSTRACT: Analytical formulas are derived for determining the basic parameters of bending and stretching processes used in sheet metal forming with regard to external friction. Two bending-stretching combinations are considered: bending followed by stretching, and stretching followed by bending with subsequent additional stretching (calibration). The theoretical work is based on an experimental study of the effect which frictional forces have on the mechanical deformation characteristics of sheet metal. A PGR-87 cornice brake was used for forming angular components from D16 all y. The results show that external friction results in nonuniform stress distribution heaving a spring in the finished component. An analysis of the theoretical formulas shows

Cord 1/2

L 45599-66			
ACC NR: A	6014324		
			0
properties (cant reduces this phenome	ree of nonuniformity increa pression is given for maxim f the material and bending nonuniformity of elastic d non. The formulas derived s. Orig. art. has: 13 fig	um bending angle as a curvature. It is show eformation in some case in the paper are recom-	function of the mechanica n that the use of lubri- es but cannot eliminate
SUB CODE: 1	3/ SUBM DATE: 27Nov61/ 0	RIG REF: 008	
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"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239230008-3

16,4500

S/044/62/000/002/046/092 C111/C444

AUTHOR:

Parkhomenko, I. G.

TITLE:

The solution of the first problem of elasticity for

the circle

PERTODICAL:

Referativnyy zhurnal, Matematika, no. 2, 1962, 78,

abstract 2B347. ("Dokl. AN Uz SSR! 1959, no. 12, 8-12)

TEXT: It is shown that it is possible to reduce the solution of the integral equations of the first elasticity problem for a circle to the solution of systems of integral equations with bounded kernels.

Abstracter's note: Complete translation.]

13

Card 1/1

PARKHOMENKO, I.G. Solving the first problem in the theory of elasticity for a circle.

Dokl.AN Uz.SSR no.12:8-12 '59. (MIRA 13:5)

1. Chimkentskiy UKP VZISI. Predstavleno akad. AN UzSSR T.N.

Kary-Niyazovym. (Elasticity)

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PARTITION OF THE PARTIT
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Ufa; Stolitsa Fashkirskey ASSE (Lfa; Capital of Baskir ASCF, 17)

Kh. Ya. Takhayev I I. I. Parkhemonko. Moskva, Geografiedet, 150...

Sc. 1199/5
621.15
.T1

PARKHOMENKO, I.I.

Hydraulic Engineering—China

People's construction projects of new China. Priroda hi, no. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress,

DECLINER 1952 1983. Unclassified.

PARK	Homenko, II
	tific Organization - Conferences
Card 1/1	Puls. 86 = 10/36
Authors	• Kozubov, A. S., and Parkhomenko, I. I.
Title	First conference of the Chinese Geographic Society
Periodical	• Prirode 2, 78-80, Feb 1954
Abstract	Excerpts from Chinese ccientific periodicals, "Kesyue Tunbao" (Scientific Herald) and "Dili Syuebao" (Geographical Herald), describing the minutes from the first national conference held by the Chinese Geographic Society in Peking on January 1953 are presented.
Institution	
Submitted	

Jeurnal of abstracts, "Geografiia". Reviewed by I.Parkhemenke. Geog. v shkele 19 me.3:75-76 My-Je '56. (MIRA 9:9) (Geography--Periodicals)

30(5)

SOV/10-59-4-27/20

AUTHOR:

Parkhomenko, I.I.

TIPLE:

First Conference to Study the Development of Productive Forces of the Stanislavskiy ekonomicheskiy administrativnyy rayon (Stanislav Economic District)

PERIODICAL:

Izvestiya Akademii nauk SSSR, Seriya geografiches-

kaya, 1959, Nr 4, pp 156-157 (USSR)

ABSTRACT:

The article covers the First Inter-Vuz Conference to Study the Development of Productive Forces of the Stanislav Economic District and Methods to Conduct Economic and Geographical Research on the National Economy which took place in Chernovtsy from 6 to 10 April, 1959. The conference was organized by the Ministerstvo vysshego obrazovaniya USSR (Ministry of Migher Education of the Ukrainskaya SCR), the Chernovitskiy gosudarstvennyy universitet (Chernovtsy

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SCV/10-59-4-27/29

First Conference to Study the Development of Productive Forces of the Stanislavskiy ekonomicheskiy administrativnyy rayon (Stanislav Economic District)

State University), and the Sovet narodnogo khozyaystva (Economic Council) of the Stanislav Economic
District, with more than 100 scientists, education
specialists, engineers, economists, and planning workers participating who heard 50 reports. The following personalities delivered reports: K.M. Leutskiy,
Head of the Chernovtsy State University, held an
opening address; I.V. Romanov, Deputy Chairman of the
Stanislav Economic Council, lectured on the future
development of that district during 1959-65; V.V.
Cnikiyenko - on "The Industrial Complex of the
Stanislav Economic District and Its Economic Prospects in the Future" and "Basic Laws in the Development and Geographical Distribution of Agricultural
Production in the Carpathian areas of the Ukrainskaya
SSR"; N.G. Ignatenko - on "The Present-Day Specialization Level in the Chemical Industry of the Stanis-

Card 2/6

S07/10-59-4-27/29

First Conference to Study the Development of Productive Forces of the Stanislavskiy ekonomicheskiy administrativnyy rayon (Stanislav Economic District)

The confidence of the property of the party of the party

lav Economic District and Its Future Development"; Ye.V. Mironova - on "The Industry of Chernovtsy and Its Future Development"; Ya.I. Zhupanskiy and Ya.I. Bondarenko - on "The Wood Resources and Lumber Industry of the Stanislav Oblast and Their Future Prospects"; V.A. Kostyuk, Chairman of the Planning Committee of the Stanislav Oblast, reported on the development of economy in the Stanislav Oblast during 1959-65, whereas D.S. Shemetun, Chairman of the Planning Committee of the Drogobychskaya oblast (Drogobych Oblast) reported on the development of economy of the oblast during that period; I.T. Pastukhov, Head of the Stanislavskoye oblastupravleniye (Stanislav Cblast Administration), lectured on the

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SOV/10-59-4-27/29

First Conference to Study the Development of Productive Forces of the Stanislavskiy ekonomicheskiy administrativnyy rayon (Stanislav Economic District)

history of development and distribution of both forest economy and lumber industry in the Stanislav Oblast'; V.A. Perevalov, L'vovskiy torgovo-ekonomicheskiy institut (L'vov Institute of Commerce and Economics), elucidated on "The Teaching of V.I. Lenin on the Territorial Division of Labor as a Base for the Modern Theory of Division of the USSR Into Economic Districts"; S.L. Lutskiy, (L'vov University), - on "The Methods of Division Into Low-Level Economic Districts"; I.I. Parkhomenko, Institut nauchnoy information AS USSR), - on "The Location and Nature of Economic and Geographical Research on Various Scales at Working Out Development Schemes of Economic Districts"; V.V. Onikiyenko - on "The Experience in Making Economic Maps of the Industry of the Stanislav Oblast'";

Card 4/6

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First Conference to Study the Development of Productive Forces of the Stanislavskiy ekonomicheskiy administrativnyy rayon (Stanislav Economic District)

Ya.A. Chernova-Gruzdeva, Voronezhskiy sel'skokhozyaystvennyy institut (Voronezh Institute of Agriculture), - on "Drawing and Editing a Compound Agricultural Map of a District"; I.F. Mukomel, Kiyevskiy
universitet (Kiyev University), - on the analysis of a
system of statistical and economic indices on the
economic mapping of agriculture; I.V. Nikol'skiy,
MGU, - on the experience in making economic and geographical studies of the construction industry of
Irkutskaya oblast'; A.B. Krasil'shchikov, V.I. Gortsev,
G.A. Zil'ber, S.M. Voskoboynikova, F.M. Khismatov,
and others lectured on the division into districts;
A.V. Darinskiy discussed the efforts of the geographers
of the Leningradskiy pedagogicheskiy institut im. A.I.

Card 5/6

SOV/10-59-4-27/29

First Conference to Study the Development of Productive Forces of the Stanislavskiy ekonomicheskiy administrativnyy rayon (Stanislav Economic Distrct)

Gertsen (Leningrad Pedagogical Institute Imeni A.I. Gertsen) which resulted in a comprehensive study of the oblasts of the Leningradskiy ekonomicheskiy rayon (Leningrad Economic District); T.K. Tolokonnikova, Vologodskiy pedinstitut (Vologda Pedagogical Institute), I.I. Kolyshev and A.A. Girits, Uzhgorodskiy universitet (Uzhgorod University), and others lectured on the economic use of the elements of the nature. The conference passed a resolution on the necessity to intensify economic and geographical studies and mentioned in this connection the MVO USSR and the Ukrainskoye geograficheskoye obshchestvo (Ukrainian Geographical Society).

Card 6/6

PARKHOMENO, I.1.; POKSHISHEVSKIY; V.V., prof., red.; ANDREYEV, C., tekhn.red.

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[Economic administrative regions of the U.S.S.R.; a catalog of recent literature on nature, resources, and economy]

Ekonomicheskie administrativnye raiony SSSR; ukazatel' novoi literatury po prirode, resursam i khozieistvu. Pod red. V.V.

Pokshishevskogo. Moskva. No.12 [Kazakhstan] Kazakhskaia SSR...

1958. 142 p. (MIRI 12:5)

1. Akademiya nauk SSSR. Institut nauchnoy informatsii.
(Bibliography--Kazakhstan--Boonomic conditions)

UKRAINETS, V.P.; PARKHOMENKO, I.I.

Mechanizing the purification of poppy and small-seed medicinal plants. Med. prom. 16 no.1:39-41 Ja 162. (MIRA 15:3)

1. Ukrainskaya zonalinaya opytnaya stantsiya lekarstvennykh rasteniy.

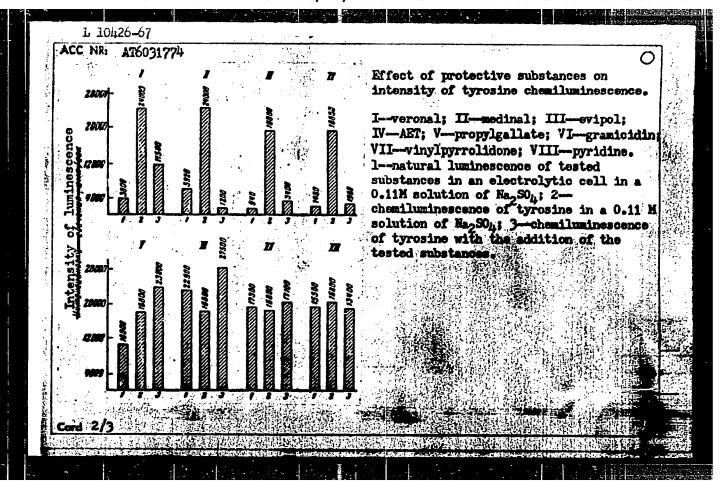
(BOTANICAL DRUG INDUSTRY)

BURLAKOVA, Ye.V.; PARKHOMENKO, I.M.

A CALL THE CONTRACTOR OF THE PROPERTY OF THE P

Effect of autolytic processes on the effect ical parameters of tissues in irradiated animals. Trudy MOIP. Otd. biol. 7:113-117 '63. (MIRA 16:11)

AUTHOR: Burdin, K.	S.; Parkhomenko, I. M.; P	etrusevich, Ku. H.	Shestakova, S. V.	42
ORG: none				
TITIE: Use of a che mechanism of certain	emiluminescent method to 1 n substances and their mix	nvestig ate the pro t tures	tective action	
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SOURCE: Moskovskoy	e obshchestvo ispytateley	prirody.Trudy. (Otdel biologicheskij	y.
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v. 16, 1966. D voboc	dnoradikal'nyye protsessy ological systems), 19-21	v biologicheskikh s	sistemakh (Processes	of
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v. 16, 1966. Syobox free radicals in bio TOPIC TAGS: antirac	ological systems), 19-21 diation drug, recombination	n luminescence, che) of
v. 16, 1966. Syobox free radicals in bio TOPIC TAGS: antirac	ological systems), 19-21	n luminescence, che		l of
v. 16, 1966. Syobox free radicals in bio TOPIC TAGS: antirad oxidation kinetics, ABSTRACT: In earlie	ological systems), 19-21 diation drug, recombination oxidation inhibition, ant er experiments on gamma in	n luminescence, che ibiotic radiated SOTs and h	emiluminescence,	the
v. 16, 1966. Svobox free radicals in bid TOPIC TAGS: antirad oxidation kinetics, ABSTRACT: In earlie action mechanism of	ological systems), 19-21 diation drug, recombination oxidation inhibition, ant er experiments on gamma in the radioprotectors (vero	n luminescence, che ibiotic radiated SOTs and hall, medinal, evipo	miluminescence, numan amnion cells tol, AET, propylgalls	the
v. 16, 1966. Evolor free radicals in bid TOPIC TAGS: antirad oxidation kinetics, ABSTRACT: In earlie action mechanism of gramicidin, vinylpyn	ological systems), 19-21 diation drug, recombination oxidation inhibition, ant er experiments on gamma ir the radioprotectors (vero rrolidone and pyridine) an	n luminescence, che ibiotic radiated SOTs and hal, medinal, evipod the potentiated e	miluminescence, numan amnion cells tol, AET, propylgalls	the
v. 16, 1966. Syobox free radicals in bid TOPIC TAGS: antirac oxidation kinetics, ABSTRACT: In earlie action mechanism of gramicidin, vinylpys combining radioprote	diation drug, recombination oxidation inhibition, ant er experiments on gamma in the radioprotectors (vero reclident and pyridine) an ectors appear to be relate	n luminescence, che ibiotic radiated SOTs and hal, medinal, evipod the potentiated of to their interact	miluminescence, numan amnion cells tol, AET, propylgalls effects produced by tion with radicals	the ate,
v. 16, 1966. Syobox free radicals in bid free radicals in bid to radicals in bid to receive the radicals and receive the radical recombining radioproted during oxidation.	diation drug, recombination oxidation inhibition, ant er experiments on gamma in the radioprotectors (vero reclident and pyridine) an ectors appear to be related the present study investigence of radicals appearing	n luminescence, che ibiotic radiated SOTs and he nal, medinal, evipod the potentiated ed to their interact ated the effect of during electroches	numan amnion cells tol, AET, propylgalla effects produced by tion with radicals the radioprotectors rical exidation of	the ate,
TOPIC TAGS: antirac oxidation kinetics, ABSTRACT: In earlie action mechanism of gramicidin, vinylpy combining radioprote during oxidation. Trecombined luminese tyrosine in a 0.11 least	diation drug, recombination oxidation inhibition, ant er experiments on gamma in the radioprotectors (vero reclident and pyridine) an ectors appear to be related the present study investigence of radicals appearing the solution of NapSOL. Int	n luminescence, che ibiotic radiated SOTs and he nal, medinal, evipod the potentiated ed to their interact ated the effect of during electroches	numan amnion cells tol, AET, propylgalla effects produced by tion with radicals the radioprotectors rical exidation of	the ate,
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L 10426-67 ACC NR: AT6031774

Findings show that AET, medinal, veronal and evipol quench chemiluminescence of radicals formed during tyrosine electrolysis; these apparently act as antioxidants. On the other hand, gramicidin and propylgallate increase chemiluminescence probably by increasing the number of radical recombinations. In testing the radioprotector effectiveness of the preparations on gamma irradiated cells, the barbituric acid derivatives (veronal and evipol) offered little protection. Pyridine increased the survival of SOTs cells irradiated with a 900 r dose from 19.5 to 40%. No potentiated effect was produced by combining AET with veronal or AET with evipol. Survival of cells was markedly increased by combining AET with propylgallate, AET with gramicidin, AET with vinylpyrrolidone, anoxia with vinylpyrrolidone and anoxia with pyridine. However, a potentiated effect cannot be produced by combining gramicidin with vinylpyrrolidone. It is concluded that a potentiated radioprotective effect is produced by combining preparations with different action mechanisms in relation to radicals. Orig. art. has: 1 table.

SUB CODE: 06, 07/ SUBM DATE: none/ ORIG REF: 004/ OTH REF: 001

Cord 3/3 570

ACC NR: AT7002536

SOURCE CODE: UR/0000/66/000/000/0318/0327

AUTHORS: Burlakova, Ye. V.; Parkhomenko, I. M.

ORG: Moscow State University (Moskovskiy gosudarstvennyy universitet)

TITLE: Dynamics of the postradiation multiplication of SCH cells during reparation and chemical protection against radiation

SOURCE: AN SSSR. Nauchnyy sovet Radiobiologiya. Zashchita i vosstanovleniye pri luchevykh povrezhdeniyakh (Protection and repair from radiation damage). Moscow, Izd-vo Nauka, 1966, 318-327

TOPIC TAGS: cell physiology, gamma irradiation, radiation protection, radiation damage, radiation cell effect, radioprotective agent, entirely along

ABSTRACT: Experiments were set up to examine the problem of the reversibility of various forms of lesions of SCH cells following γ -irradiation and to elicit whether the presence of the irrecoverable portion of the lesion is associated with some definite form of inactivation. The protectors used were aminoethylisothiuronium bromide hydrobromide, propyl gallate, and polyvinyl pyrolidone. The investigation revealed that the rate of division of γ -irradiated SCH cells forming both normal and abortive colonies did not substantially differ from the rate of division of unirradiated cells. Various forms of inactivation of the irradiated SCH cells were found to exist which differed in the extent of damage. Under conditions of protection

Cord 1/2

UDC: none

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	forms	postradiation recovery the more severe forms of lesion could change to ms. The authors state that it is unlikely that some forms of lesion are									related	
	only v	with t	ith the reversible part of damage and others are responsible for its in art. In conclusion, the authors express their gratitude to V. I. Koros								rrevers-	
	for v	or valuable advice and discussion of the results and to S. V. Shestakova for echnical assistance. Orig. art. has I table and 3 figures.							or .			
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PARKHOMENKO, I.M.

Postirradiation recovery of cynchomolgus monkey heart cells subjected to gamma-irradiation. Radiobiologiia 3 no.5:689-690 (MIRA 17:4)

l. Moskovskiy gosudarstvennyy universitet imeni Lomonosova, biologo-pochvennyy fakul'tet.

ORLOV, V.N.; ORLOV, O. Y. PANOV, Ye.N.; CHAYKOVSKIY, Yu.V.; YABLOKOV, A.V.;

GONGHARENKO, Ye.N.; CORBUNOVA, V.G.; KONOPLYANNIKOV, A.K.;

KUDRYASHOV, Yu.B.; REUK, V.D.; SHUHNIKOVA, Ye.A.; TARUSOV, B.N.;

PETRUSEVICH, Yu.M.; IVANOV, I.I.; GAPONENKO, V.I.; ANTONOV, V.A.;

VOROBYKV, L.N.; RUHLAKOVA, Ye.V.; EURDIN, K.S.; PARKHOMENKO, I.M.;

AGAVERDIYEV, A. Sh.; DOSKACH, Ya. Ye.; TARUSOV, B.N.

Erief news. Bluk MOIP, Otd. biol. 70 no.6:158-171 N-D '65.

(MIRA 19:1)

PARKHOMENKO, I.M.

Effect of some protective substances in gamma irradiation of the cell cultures of cynomolgus heart. Radiobiologiia 3 no.3:467-471 '63. (MIRA 17:2)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova, biologo-pochvennyy fakulitet.

BURDIN, K.S., PARKHOMENEC, I.M.

Relate of interior of from the spleam and klamers of disconnected wise during early postradiation period. Names. Park. vis. shkoly; biol. nauki no.1:94-97 166. (M. - 1941)

1. Bakomendovana kufedrov biofiniki Moskovnákam susuki s svenieze miversiteta. Julmitted Narch 9. 1965.

EWP(1)/EWT(1)/EWT(n)/EDS--APPTC/AMD/ASD--PS-L--RM/AB/K 8/0205/63/003/003/0467/0471 63 1 11251-63 AP3001076 62 MINES TO BE

Parkhomenko, I. M. AUTHOR:

TITIE: Effect of certain protective substances during games irradiation of Tainomol!gus monkey heart cell culture

SOURCE: Radiobiologiya, v. 3, no. 3, 1963, 467-471

MOPIC TAGS: propylgallate, vinylpyrrolidon, aminosthylisotiuron (ABT), protective notion mechanism, coaction of protective substances, gamma irradiation

ABSTRACT: The protective action of propylgallate, vinylpyrrolidon, and their coaction with aminoethylisotiuron (AET) was investigated to determine their effectiveness in treating radiation injuries and to understand more fully the mechanism of radiation action on biological systems. The studies were conducted on a transplanted strain of SOTs (Tsinomoligus monkey heart) culture. Effective concentrations and optimum time intervals between administration of protective substances and irradiation were chosen. Propylgallate administered before a 550 r dose irradiation increases survival of cells from 46.2 to 72.9-75%, and when administered after a 550 r dose it increases survival up to 71%. Survival of cells irradiated in the presence of vinylpyrrolidon also increases significantly up to 72%. Coaction

Card 1/2

L 11251-63 ACCESSION IR: AP3001076 of ABT and propylgallate administered before irradiation reduces survival of cells to 53.65 and in some cases to 35%. However, administering ABT 5 mins before irradistion and propylgallate after irradiation increases cell survival by 80% for 550 r and 52.9% for 750 r. This total protective action is attributed to different action mechanisms. Orig. art. has: 2 figures, 5 tables. ASSOCIATION: Moskovskiy gosurdarstvenny vuniversitet in. M. V. Lomonosova, bibloge-pochvenny y fakulitet (Moscow State University, Biblogy and Soil Bivision) ENGL: 00 DATE ACQUE OLJul63 SUBMITTED: 18Jan62 OTHER: 004 NO REF SON: 006 SUB COOK: OO ch/ww Carla 2/2

ACCESSION NR: AP3007762

8/0205/63/003/005/0689/0690

AUTHOR: Parkhomenko, I. M.

TITLE: Post-radiation regeneration of SOTS cells exposed to gamma-irradiation

SOURCE: Radiobiologiya, v. 3, no. 5, 1963, 689-690

TOPIC TAGS: post-radiation cell regeneration, gamma-irradiation, Tsinomol'gus monkey (SOTS) heart cells, phosphate buffer, phosphate buffer incubation, survivability rate, radioprotective substances

ABSTRACT: SOTS (Tsinomol'gus monkey heart) cells were gammairradiated with a dose of 550 r on a GUT-Co-400 unit (50 r/min).
Before irradiation the cells were taken from their culture medium and
placed into a phosphate buffer which provided starvation conditions.
The cells were irradiated in the phosphate buffer and then incubated
in it for periods ranging from 1 to 24 hrs. Then the cells were
placed in a medium culture and cell colonies were counted 14-18 days
placed in a medium culture and cell colonies were counted 14-18 days
later. Incubation in a phosphate buffer does not damage nonirradiated cells, but completely inhibits their fission. For a 550 r
dose the survivability rate under normal conditions is 46.2+3.6%.
Cord1/2

AP3007762 ACCESSION NR:

With short term (2 hr) phosphate buffer incubation of the irradiated cells survivability of cells is reduced to 25%. The survivability of irradiated cells rises with increase in the incubation period. After 8 hr of incubation in a phosphate buffer a constant survivability rate of 74-78% is reached. This rate coincides with survivability of cells irradiated with 550 r in the presence of nitrogen or protective substances. It appears that for each radiation dose there is a certain percentage of cells which cannot be regenerated under any conditions. For 550 r the percentage is 22-26%. Orig. art. has: 1 figure.

ASSOCIATION: Moskovskiy gosudarstvenny*y universitet im. M. V. Lomonosova, biologo-pochvenny fakulitet (Moscow State University, Biological and Soil Department)

SUBMITTED: 180ct62 DATE ACQ: 220ct63 ENCL: 00

SUB CODE:

NO REF SOV: 003

008 OTHER:

Card 2/2

SOURCE CODE: UR/0325/66/000/001/0094/0097 EWT(m) I. 28983-66 (A,N)ACC NR. AP6019164 AUTHOR: Burdin, K. S.; Parkhomenko, I. M. ORG: Department of Biophysics, Moscow State University in. M. V. Lomonosov (Kafedra biofisiki Moskovskogo gosudarstvennogo universiteta) TIPLE: Yield of potassium from the spleen and kidneys of irradiated mice in the early post-radiation period SOURCE: Nauchmyye doklady vysshey shkoly. Biologicheskiya nauki, no. 1, 1966, 94-97 TOPIC TAGS: polymerization, gamma irradiation, radiation biologic effect, enzyme, The yield of potassium ions from isolated tissues of animals in pyridine, monomer the first hours after irradiation was studied as a function of the radiation dose and treatment with certain protective substances (vinyl-pyrrolidone and acryl amide). The authors propose that the increase in yield of K+ after a massive dose of gamma rays indicates liberation of proteolytic enzymes. Pre-radiation injection of low molecular substances (upable of polymerization results in suppression of K4 yield. Pyridine suppressed the K4 yield from the kidneys and spleen of unirradiated animals. Comparison of the effect of and noethyl isothiuronia, pyridine and the monomers on K' yiold supports the ides that in connection with irradiation No yield is associated with destruction of intracellular surfaces of division (lysomers). Monomers capable of inoculation in the lipid fractions sharply reduce the K yield from the cells. Orig. art. has: 3 figures. JPRS7 SUB CODE: 06, 07 / SUBH DATE: 29Mar65 OTH REF: 008 002 ORIG REF:

The protective effect of thiourea. Biofizika 5 no. 2:239-242 '60.

(MIRA 14:4)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta im.M.V. Lomonosova.

(RADIATION PROTECTION) (UREA)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239230008-3"

KRIGER, Yu.A.; PARKHOMENKO, I.M.

Change in the properties of erythrocytes caused by prehenolytic doses of -rays. Biofizika 5 no. 5:539-542 '60. (MIRA 13:10)

1. Moskovskiy gosudarstvennyy universitet im, M.V. Lomonosova. (ERYTHROCYTES) (GANMA RAYS—PHYSIOLOGICAL EFFECT)

BURLAKOVA, Ye.V.; PARKHOMENKO, I.M.

Studies on electric conductivity and autolysis of liver tissue in irradiated animals. Biofizika 5 no. 5:552-557 '60. (MIRA 13:10)

1. Biologo-pochvennyy fakulitet Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova.

(GAMMA RAYS—PHYSIOLOGICAL EFFECT) (AUTOLYSIS)

(ELECTROPHYSIOLOGY)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239230008-3"

PARKHOMENKO, I

49-58-2-6/18

INTE CR: Parkhomonko, I.S.

Investigation or Todels of the Pascage of a Main Weve Through Layers with an Increased Speed (Isucherlye no TITE: modelychin projdioshickija jokovnoj volny shemoz skoy s rovyskemoy skorost'yu)

PaltiobloAJ: levistija Ajadonii laut JJR, Seriya Geofizach troya. 1958, Hr 2, pp.195-20; and 3 plates (Visia)

ABBTRAGE: The results and instable of organizantal study of organizantal study of of of simple of recombings of the main refracted days and of of the spinario drifts as a function of the spinario drifts and the spinario drifts are a function of the spinario drifts and the spinario drifts are a function of the spinario drifts and the spinario drifts are a function of the spinario drifts are a function of the spinario drifts and the spinario drifts are a function of the spinario drifts and the spinario drifts are a function of the spinario drifts and the spinario drifts are a function of the spinario drifts ar of the thickness of the layer to the length of the wave, d/A, during its passa of through a layer of finite thick with an increased speed of wave ropagation. The encountry considered of incidence of a wave on a layer under an angle which is smaller or larger than the limit angle for longtudinal waves. The investigations have shown that aurifu pascage of a wave through the layer the shape of the yave changes. In the case of incidence of a wave on layer at the limit angle un lacrease is observed in the sound tude of the seismic drift as compared to its previous value. The problem of passage of a wave injulse through o leger of Card 1/9 finite thickness has not been satisfactorily solved and the

49-58-2-6/18

Investigation on Models of the Passage of a Main Wave T. rough Lagrace with an Increased Speed.

matically owing to the involved great difficulties and has also not been studied directly on real modia. Therefore, a method of simulating on models of seismic phenomena was chosen by the authors which has been developed by the Geophysics Institute, Academy of Schences of the USBR Geophysics Institute, AC SSSR) (Refs.2-4). This problem was first solved by B.H.Ivakin (Ref.5) using 5-dimenten was first solved by B.H.Ivakin (Ref.5) using 5-dimenten was first solved by B.H.Ivakin (Ref.5) using 5-dimenten which are submerged in water; he investigated the dependence which are submerged in water; he investigated the dependence of the "transparency" coefficient of the layers on the incidence angle of the wave and analysed the types of waves cidence angle of the wave and analysed the types of waves which pass through the layer. Various experimental and theoretical work has been published (Refs.6-21) in which the retical work has been published (Refs.6-21) in which the formulation of the problem, these authors do not study the formulation of the problem, these authors do not study the coaplete system of waves forming during passage turbugh a coaplete system of waves forming during passage turbugh a coaplete system of waves forming during passage turbugh a coaplete system of waves forming during passage turbugh a coaplete system of waves forming during passage turbugh a coaplete system of waves forming during passage turbugh a coaplete system of waves forming during passage turbugh a coaplete system of waves forming during passage turbugh a coaplete system of waves forming during passage turbugh a coaplete system of waves forming during passage turbugh and the respective authors usually limit together.

Card 2/9

49-58-2-6/18

Investigation on Models of the Passage of a Main Wave Through Layers with an Increased Speed.

to the standy state regime and deal leas with values allowables. In all the mentioned published work dealing with passage of oscillations through plates, attention in additional focused on the change of the intensity of the value. The serious considerations, however, other problems across portance, for instance, study of new types of waves with occur in presence of a covering layer of a higher study of the shape of recording of the passing wave, the relation the shape of recording of the passing wave, the relation mumber of other problems. In this paper a partial automorate is made to fill this gap and the author studies same of these problems, particularly the shape of the recording and the magnitude of the seismic drift of the main wave as a the magnitude of the seismic drift of the main wave as a function of the ratio of the thickness of the layer to the wavelength. The author proposes later on to investigate the problem of intensity of this wave. The hore-described experiments were effected by rimulating seismic plane on 3-limensional solid-liquid models. Fall scale, with natural conditions was not obtained, firstly because in a natural conditions was not obtained, firstly because in a natural conditions solid medic are investigated in the conditions was not obtained.

Card 3/9

49-53-2-6/18

Investigation on Models of the Passage of a Main Ware T rough Layers with an Increased Speed.

which transverse waves were absent and secondly, because in the two cases the differences in the wave resistances in the wave resistances of persper, aluminium and the ratio of the wave resistances of vater is about 2, 10 and brass to the wave resistances of water is about 2, 10 and 20 whilst in nature the ratio of the wave resistances of individual layers with increased speed and of the media surrounding them is usually not over 3-5. At the initial surrounding them is usually not over 3-5. At the initial surrounding them is usually not over 3-5. At the initial surrounding them is usually not over 3-5. In the initial surrounding them is usually not over 3-5. The initial surrounding the basic phenomena wave picture and the since this simplifies somewhat the wave picture and remains studying the basic phenomena which are of intraction. The ratios of the wave resistances were imposed by the interpretable conditions. The investigations were carried out by means of a pulse ultrasonic seismoscope, using as transmitter and receiver picture pickups of seignates and total reduced in the water a short pulse of a such a crystal produced in the water a short pulse of a such a crystal produced in the water a short pulse of a said frequency of about 140 kc/s. A wide band an lifter with a passband between 15 and 150 kc/s was used. The

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In emblyation on Wols of the Passage of a Mair Wave Tarrent Tayers with an Increased Speed.

odul consisted of a water tan't into which shoots of which materials and various thic messes were submarged in a zontal position to simulate layers with increased to the properties of clastic waves. The following will investigated: (1) a brass chest 1100 x 600 m. f., investigated: (1) a brass chest 1100 x 600 m. f. investigated: (1) a brass chest 1100 x 600 m. f. investigated: (2) the same sheet but into a depth of about 140 mm; (2) the same sheet but into a depth of about 140 mm; (2) mm thick fitted at brass strip 20 mm wide and 19.5 mm thick fitted at tance of 550 am from its left end to simulate a protince (3) the same as Mr (2), additionally fitted with a shows placed horizontally above the basic brass sheet in C region of exit of the main wave (see Fig.1, .1.) line served as an intermediate layer and consisted of sheats. various thic messes of various materials with croseco of propagation of the elastic waves both lower and ligher in a the respective speeds in brass. The results are interest graphs and tables and several recorded escillograms produced. The investigations described in the paper . shown that presence of a layer with an increased special the covering medius in the zone where the main meve essence. all bring about a counge in the shape of the record of the of the magnitude of the seismic drift of the win wave me.

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Investigat on on Models of the Passage of a Main Wave Turking Layers with an Increased Speed.

certain conditions. During passage of the main may, through this kyers with an increased speed in cases of incidence of the mayon on the layer under an angle θ which is losa, and or larger than the limit angle θ_p , the share of the free cording of the main wave in the case of longitudinal raying in the layer will remain the same as in the case of absence of an intermediate layer; this takes place in the case of θ for d/ θ ratios below 0.2% and also in the case of screening θ for d/ θ ratios below 0.2% and also in the case of screening θ for d/ θ ratios below 0.0%. With its creasing thickness of the intermediate layer the share if the recording of the main wave will become distorted in both cases owing to superposition for certain d/ θ ratio of a transverse and of sultiple waves inside the layer. If the thickness of the layer increases further θ and the recording of a transmitted main case will as an angle θ and also in the case of the undistorted if the wave hits at an angle θ and θ .

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Investigation on Models of the Passage of a Main Weye Common Sayers with an Increased Speed.

Phesence in the coveries median of a thin layer (3/1 < .75 for $\theta \leq \theta_p$) does not it has the for $\theta \leq \theta_p$) does not it has the magnitude of the seismic drift which remains the car. would be in absence of ar intermediate layer. With large to ing thickness of the layer determination of the princip drift will become less reliable in the cases $\theta < \theta_p$ and due to distortions of the shape of our recommit. θ>θ_p the amin wave but the magnitude of the drift corpus (22 00 the magnitude calculated in the basis of geometric a fishing laws. For an incidence angle of the wave $\theta = \theta_{\rm p}$ following is observed: (1)for d/λ ratios = 0.04-0.31 2 sharp decrease is observed in the amplitude of the main wave on the section of the profile which coresponds to the normal drift; this decrease is am arently due to a cossetion of recording of the wave which passes through the latermediate layer in the form of a transverse wave; (2) are cess value of the drift was detected which is atoricated to the passage through the layer of a particular type of longitudinal wave which penetrates into the medium in the order of Card 7/9

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Investigation on Models of the Passage of a Main Wave The Passage of a Main

the angle being a limit angle for the longitudinal waves; the additional drift in the intermediate layer increases with increasing d/λ ratios and amounts to 1-2 wavelergths in the layer. It can be assumed that the observed relations remain unchanged also for the range of lower frequencies and in this case the detected excess value of the seismic drift will be of interest: in the case of recording of oscillations of about 10 cps the excess may amount to about 1 km and for waves with a predominating frequency of 100 cps it may reach 150-200 m. Presence of an intermediace layer in the range of exit of the main ware leads to the formation of two new waves, namely, a refracted-reflected wave which is reflected from the intermediate and the basic layers, and a complicated diffraction-main wave which is linked with the two layers (the basic and the interestrate layers). The obtained experimental results are qualitatively in agreement with equations which follow from the

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Investigation on Models of the Passage of a Main Wave Through Layers with an Increased Speed.

theoretical investigations of the problem of passage of waves through a layer in the case of incidence angles which are equal or larger than the limit angle for longitudical waves. There are 11 figures, 1 table and 25 references, of which 13 are Russian, 7 German and 5 English.

ASSOCIATION: * redemy of Sciences of the USSR, Institute of Earth Physics (Akademiya nauk SSSR, Institut fiziki Zenli)

SUBMITTED: June 13, 1957.

AVAILABLE: Library of Congress.

Card 9/9

, I.S. PARKHOMENKO Vasil'yev, Yu.I., Kovalev, O.I. and Parkhomerko, I.S. AUTHORS:

TITLE:

Investigation of the Crystalline Foundation by the Method of Refracted Waves Under Conditions of Incomplete Screening. I. (Issledovaniye kristallicheskogo fundamenta metodom prelom-

lennykh voln v usloviyakh nepolnogo ekranirovaniya. 1)

Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya, 1958, No.3, pp. 317 - 329 (USSR). PERIODICAL:

Of all the existing geophysical methods of prespecting, including the seismic method of refracted waves, the most ABSTRACT: reliable and accurate results are obtained in investigating a crystalline foundation by means of the method of refracted waves. In a number of regions, particularly in the eastern part of the Russian platform, prospecting of the foundation by means of refracted waves encounters serious difficulties. particularly due to the presence in the covering medium of thick layers of carbonate rocks in which the speeds of the elastic waves are equal or almost equal to those characterising the crystalline Therefore, conditions are created which are near to those of screening of longitudinal, refracted primary waves in the respective surfaces of the crystalline formations. The Geophysics Institute of the Ac.Sc. USSR (Geoficial reskiy institut Cardl/4AN SSSR) carried out special tests for elucidating the possibility

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Investigation of the Crystalline Foundation by the Method of Refracted Waves Under Conditions of Incomplete Screening. I.

of exploration of the foundation by means of the method of correlation of refracted waves under the given seismological conditions. The work included evolving a low-frequency modification of the method of correlation of refracted waves. The work was carried out under the direction of C.A. Gamburtsev between 1951 and 1955 with the participation of the authors of this paper and a number of other people of the Geophysics Institute of the Ac.Sc. USSR. The results of these investigations are described in this paper. The experiments were based on conclusions derived from earlier work, according to which optimum conditions for recording longitudinal, refracted waves corresponding to the surface of crystalline rocks, under conditions approaching screening, can be created by utilising sufficiently large wavelengths, i.e. by using apparatus which ensures the possibility of recolling of frequencies of oscillation of the soil which are lower than those usually applied in seismic prospecting. The apparatus used is described in para. 1. It is designed to record frequencies of the range 10 - 35 c.p.s.

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> The circuit of the low-frequency amplifier in Fig. 2 and the frequency characteristics in Fig. 3 are shown. Para. 2 deals with the technique used in the investigations. The experimental results are dealt with in para. 3, giving a number of seismograms and hodographs. The carried cut investigations show that an application of low-frequency apparatus permits recording longitudinal, refracted waves corresponding to the surface of the crystalline foundation in cases in which the latter is located under a thick layer of carbonate formations in which the speed of elastic waves is almost the same as in the crystalline formations. Earlier attempts to use, for the same purpose, medium-frequency apparatus did not prove successful. Considerable differences were detected in the dynamic characteristics of waves corresponding to the refracted layers in the carbonate formation and in the surface of the crystalline formations (differences in the features of the recording, the frequency and the degree of attenuation with distance). A low-frequency modification of the correlation method of refracted waves was developed, which can be used not only for investigating crystalline foundations, but also

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APPROVED FOR RELEASE: 06/15/2000

49-58-3-3/19 Investigation of the Crystalline Foundation by the Method of Refracted Waves under Conditions of Incomplete Screening. I.

for studying thick layers of sedimentary rocks, particularly in the case of strong absorption of seismic energy or if screening layers are present. The authors consider it advisable to carry out tests also for recording refracted waves by means of low-frequency apparatus.

There are 14 figures and 10 references, all of which are Russian.

ASSOCIATION: Institute of Physics of the Earth Ac.Sc. USSR.

(AN SSSR institut fiziki Zemli)

SUBMITTED: February 13, 1957

AVAILABLE: Library of Congress

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49-58-4-3/18

AUTHOR: Parkhomenko, I. S.

TITLE: Analog Studies of the Head Wave Intensity when a Layer of Higher Propagation Velocity is Passed Through (Izucheniye na modelyakh intensivnosti golovnoy volny pri yeye prokhozhdenii cherez sloy s povyshennoy skorost'yu)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya, 1958, Nr 4, pp 449-457 (USSR)

ABSTRACT: Experimental data on the refracted waves occurring when compressional waves are incident on a layer of higher propagation velocity at angles above and below the critical are considered, particularly in relation to the way the wave amplitude is dependent on the ratio of layer thickness to wavelength. The setup used is one with parallel-sided layers of solid immersed in a liquid in which only compressional waves are incident, refraction occurring from brass to gloss, perspex, aluminium, etc. The experimental arrangements (source, detector, etc.) are not described. Effects due to waves repeatedly reflected within the solid layer are considered, as well as interference phenomena (depressed and accentuated transmission). A comparison with results computed from the wave theory shows good agreement

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halog Studies of the Head Wave Intensity when a Layer of Higher eropagation Velocity is Passed Through.

at angles of incidence less than critical but the transmitted waves are of amplitudes higher than predicted for angles beyond the critical, except with thick layers. The results do not appear to differ greatly from those previously reported in Western acoustics journals. There are 5 figures, 1 table and 11 references, 2 of which are English, 9 Soviet.

ASSOCIATION: Akademiya nauk SSSR, Institut Fiziki Zemli (Academy of Sciences, USSR, Institute for Studying the Physics of the Earth)

SUBMITTED: July 22, 1957.

1. Sound-Intensity 2. Sound-Velocity 3. Sound-Propagation

4. Wave analysis

Card 2/2

AUTHORS: Vasil'yev, Yu. I. Kovalev, O. I., Parkhomenko, I. S.

On Investigating the Crystalline Foundation by Means of the Method of Refracted Waves Under Conditions of Incomplete Screening. Part II (Ob issledovanii kristallicheskogo fundamenta metodom prelomlennykh voln v usloviyakh nepolnogo TITIE:

FERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya, 1958, Nr 5, pp 569-581 (USSR)

ABSTRACT: In Part I of this paper (same journal, Nr 3, 1958) an attempt is described of applying a low frequency modification of the method of refracted waves for exploring the crystalline foundation in cases where the foundation is incompletely screened, and the results are given which were obtained in experimental work in the Volga-Ural region. In this paper a more detailed evaluation is made of the obtained experimental method for the purpose of detecting characteristic features of the observed data and for justifying this method of ex-Certain dynamic and kinematic features are considered which characterise the main waves under conditions of small speed differentiation of the medium in presence of ploration. incomplete screening. Quantitative evaluation is given of the effect of screening. Furthermore, the problems of inter-

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pretation of the obtained information and the explosion. potentialities of the method are considered. Para l deals with the attenuation and the stability of the main waves corresponding to the surface of the foundation, (tII) the refracting layers in a carbonate massif considering the obtained experimental results and the causes of differing attenuation of the waves, as well as the waves the magnitude of the differing attenuation of the waves for waves. Para, 2 deals with the screaning recording the of the crystalline foundation, considering the kinematic conditions, as well as the dynamic conditions of screening. Para.3 deals with certain features of refracted waves corresponding to the surface of the foundation under conditions of small speed differentiation of the medium. Para.4 deals in detail with problems of qualitative and quantitative interpretation. In Para.5, relating to the exploration potentialities of the method, the authors deal with the possibility

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On Investigating the Crystalline Foundation by Means of the Method of Refracted Waves Under Conditions of Incomplete Screening. Part II.

in principle of exploring the foundation under conditions of incomplete screening by the described method, considering also the accuracy and the main trends in perfecting . It is possible with adequate probability to the method. distinguish structural elements of the foundation of at least 100-200 m with incidence angles of at least 10-20. The errors relating to the relief of the foundation are at present determined to a considerable extent by lack of information on the layer speeds in the lower regions of the massif and may reach 20 to 25% of the real fluctuations at the surface of the foundation. As an example of the comparison of seismic and geological data, a schematic structural chart is reproduced in Fig.6, p.579, which shows the foundation as plotted from seismic data and also information gained from bore holes; on the Northern part of the territory a satisfactory agreement was found to exist between the seismic and the geological data. One of the wells in the South Western part of the territory sunk after gaining knowledge from seismic data confirmed the presence of a rise iv. the level of the foundation whereby the difference between the seismic data and the data Card 3/pbtained by drilling amounts to about 10-15% of the depth of

On Investigating the Crystalline Foundation by Means of the Method of Refracted Waves Under Conditions of Incomplete Screening. Part II.

location of the foundation. It is pointed out that the developed method which is based on recording of only the longitudinal refracted low frequency waves can be considerably improved by combining observation of the longitudinal waves with observations of the "exchange" longitudinal-transverse refracted waves corresponding to the same surface and also by combining with the refracted and reflected waves corresponding to considerably deeper boundaries. Some experience in recording such waves and using the results for exploring the foundation in the Volga-Ural region is already available. There are 6 figures and 17 Soviet references.

ASSOCIATION: Akademiya nauk SSSR, Institut Fiziki Zemli(Academy of Sciences USSR, Institute of Physics of the Earth)

SUBMITTED: February 13, 1957.

1. Geophysical surveying--USCR

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